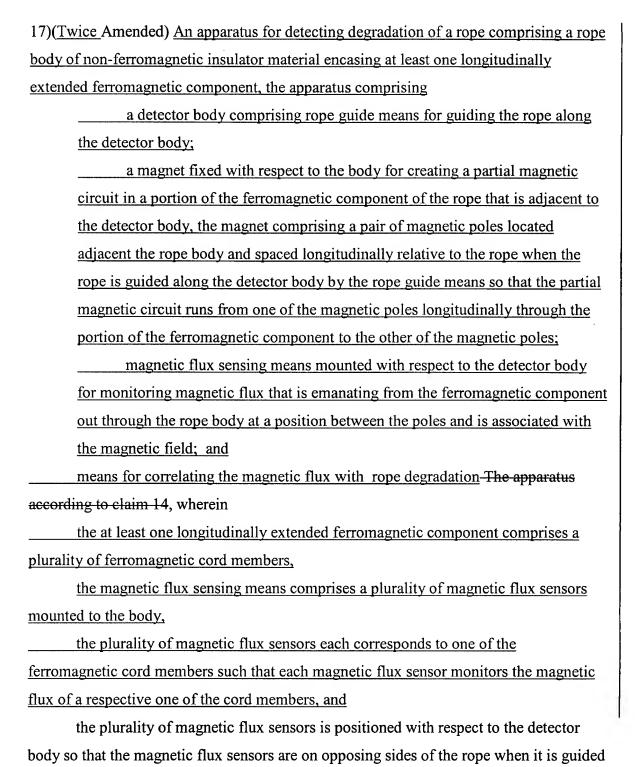


along the detector body.

VERSION SHOWING CLAIM AMENDMENTS





18) (Twice Amended) An apparatus for detecting degradation of a rope comprising a
rope body of non-ferromagnetic insulator material encasing at least one longitudinally
extended ferromagnetic component, the apparatus comprising
a detector body comprising rope guide means for guiding the rope along
the detector body;
a magnet fixed with respect to the body for creating a partial magnetic
circuit in a portion of the ferromagnetic component of the rope that is adjacent to
the detector body, the magnet comprising a pair of magnetic poles located
adjacent the rope body and spaced longitudinally relative to the rope when the
rope is guided along the detector body by the rope guide means so that the partial
magnetic circuit runs from one of the magnetic poles longitudinally through the
portion of the ferromagnetic component to the other of the magnetic poles;
magnetic flux sensing means mounted with respect to the detector body
for monitoring magnetic flux that is emanating from the ferromagnetic component
out through the rope body at a position between the poles and is associated with
the magnetic field;
means for correlating the magnetic flux with rope degradation The apparatus
according to claim 10, further comprising; and

means for mounting the apparatus in an elevator assembly in such a

manner as to enable the rope guide means to engage and guide an installed

elevator rope so that the apparatus can detect degradation of the elevator rope.



19) (Twice Amended) An apparatus for detecting degradation of a rope comprising a
rope body of non-ferromagnetic insulator material encasing at least one longitudinally
extended ferromagnetic component, the apparatus comprising
a detector body comprising rope guide means for guiding the rope along
the detector body;
a magnet fixed with respect to the body for creating a partial magnetic
circuit in a portion of the ferromagnetic component of the rope that is adjacent to
the detector body, the magnet comprising a pair of magnetic poles located
adjacent the rope body and spaced longitudinally relative to the rope when the
rope is guided along the detector body by the rope guide means so that the partial
magnetic circuit runs from one of the magnetic poles longitudinally through the
portion of the ferromagnetic component to the other of the magnetic poles;
magnetic flux sensing means mounted with respect to the detector body
for monitoring magnetic flux that is emanating from the ferromagnetic component
out through the rope body at a position between the poles and is associated with
the magnetic field;
means for correlating the magnetic flux with rope degradation The apparatus
according to claim 10, further comprising; and

means for mounting the apparatus to an elevator hoist machine assembly in an elevator assembly in such a manner as to enable the rope guide means to engage and guide an installed elevator rope so that the apparatus can detect degradation of the elevator rope.

